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P. O. BOX 216 - STATION A
COLUMBUS, OHIO

October 21, 1959

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Art Q22

FILE: ED178B
Destructor Systems,
File

Dear Sir:

This letter report summarizes the research performed under Task Order No. Z during July, 1959. During this period, revisions in the design for the second air-film-cooled incinerator were completed and progress was made on the construction of the unit.

Air-Film-Cooled Incinerator

Changes in the design for the second unit were made to permit all of the parts, in the dismantled condition, to fit through a standard 33-inch-wide door opening. These changes included moving the lower 42-inch-diameter flange to a position about 1 foot higher than previously on the outer shell; and separating the cylindrical portion of the liner horizontally into two pieces, with a slip joint which would be located so as to be below the feed opening (door) when the liner is positioned within the outer shell. The slip flange between the cylindrical portion and the lower cone of the liner was replaced by a welded joint, to avoid warpage problems encountered in the first unit during operation.

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The cleanout opening in the lower cone of the liner was eliminated, because operating experience showed that the opening was not needed. However, the circular access door near the bottom of the outer shell was retained, to permit entry to the air plenum. At a position corresponding to the junction between the grid and the upper cone of the liner, a band was welded to the upper cone to eliminate any possible gap through which paper or char might escape from the unit during operation.

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Revised drawings incorporating these changes were made and sent to you early in August. These drawings were also taken to several local fabricators of sheet-metal products in an attempt to get their cost estimates for building 1, 10, and 50 units. The local distributor of Buffalo Forge Co. blowers was also contacted for prices on similar numbers of blowers for these units. (These estimates were subsequently obtained and transmitted to you.)

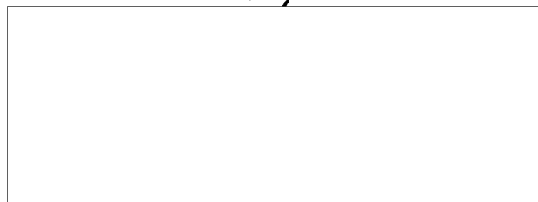
In view of the steel strike, all of the materials needed for building the second unit were obtained or ordered immediately after the appropriate contractual arrangement was finalized. Sections of the outer shell were finished and the liner was well along toward completion. The blower was scheduled to be shipped to us during the first week of September.

Paper-Feeding Mechanism

The performance-evaluation effort involved in connection with the paper-feeding mechanism will be started after the second incinerator is assembled and checked out on the basis of manual feeding.

The total appropriation on this Task Order was \$77,439. As of August 1, 1959, the unexpended balance was approximately \$6,400.

Sincerely, ,



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In Duplicate

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